

Title (en)  
CLAMPING UNIT FOR AN INJECTION MOLDING MACHINE

Title (de)  
SCHLIESSEINHEIT FÜR EINE SPRITZGIESSMASCHINE

Title (fr)  
UNITÉ DE FERMETURE POUR PRESSE D'INJECTION

Publication  
**EP 2456607 B1 20130403 (DE)**

Application  
**EP 10728721 A 20100708**

Priority  
• DE 102009034176 A 20090722  
• EP 2010059792 W 20100708

Abstract (en)  
[origin: DE102009034176B3] The locking unit has a drive device acting between a movable clamping plate (2) and a support plate (3). The drive device comprises an electric motor (21) and connection rods (10-13). The electric motor directly or indirectly loads the connection rods for opening, closing and/or applying locking force. A separate hydraulic drive is provided to the electric motor and is separately hinged at the connection rods. The hydraulic drive independently acts in parallel towards the electric motor for partially opening, closing and/or applying the locking force.

IPC 8 full level  
**B29C 45/68** (2006.01)

CPC (source: EP US)  
**B29C 45/68** (2013.01 - EP US); **B29C 45/683** (2013.01 - EP US); **B29C 2045/1792** (2013.01 - EP US); **B29C 2045/667** (2013.01 - EP US)

Cited by  
DE102015109840B3; KR20180018705A; DE102023101166A1; DE102022114469A1; US11780138B2; DE102023115966A1; WO2016202509A1; US10112331B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**DE 102009034176 B3 20100826**; CA 2764266 A1 20110127; CN 102470595 A 20120523; CN 102470595 B 20141112; EP 2456607 A2 20120530; EP 2456607 B1 20130403; US 2012107448 A1 20120503; US 8414287 B2 20130409; WO 2011009734 A2 20110127; WO 2011009734 A3 20110428

DOCDB simple family (application)  
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